

□ Regeneration of water from urine on space craft - using preserving agent with flushing water and evaporating at atmospheric pressure using capillary porous membranes.

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The urine is collected and preserved with the aid of a preserving agent and flushing water, and extracting the water by evaporation at atmospheric pressure and at a temperature not above 60 deg.C with the aid of porous capillary polymer membranes, sorption-catalytic cleaning and disinfecting before storing for use as drinking water.

For each dose of the preserving agent two doses of flushing water are used, one together with the preserving agent and the other without it. The evaporation is carried out in a closed circuit, and gas produced during heating is removed at the same time as filtering. The evaporation of water extracted from the urine on the surface of the porous capillary membrane is carried out by a continuous circulating air flow.

ADVANTAGE - More effective cleaning and higher condensate quality.
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